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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/516,135	03/01/2000	SHAOWEI PAN	CE08144R	3917
22917 75	90 03/12/2004	·	EXAMINER	
MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD			GESESSE, TILAHUN	
IL01/3RD	GONQOIN KOAD	ART UNIT	PAPER NUMBER	
SCHAUMBURG, IL 60196			2684	1 14:-
			DATE MAILED: 03/12/2004	4 .

Please find below and/or attached an Office communication concerning this application or proceeding.

. •		Appli	cation No.	Applicant(s)			
			6,135	PAN ET AL.			
Office Action Summary		Exam	iner	Art Unit			
			n B Gesesse	2684			
Period fo	The MAILING DATE of this communion Reply	cation appears or	n the cover sheet with the	correspondence address			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNION INSIDE OF THIS COMMUNION INSIDE OF THIS COMMUNION IN THE OF THIS COMMUNION IN THE OF THIS COMMUNION IN THE OF	CATION. of 37 CFR 1.136(a). In runication. days, a reply within the utory period will apply a vill, by statute, cause the	no event, however, may a reply be estatutory minimum of thirty (30) dend will expire SIX (6) MONTHS from application to become ABANDO	timely filed lays will be considered timely. In the mailing date of this communication. NED (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed	d on <u>07 January</u>	<u>2004</u> .				
2a) <u></u> □	, · ·						
3)□	,—						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)🖂	Claim(s) <u>1-11</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-11</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9)[The specification is objected to by the	Examiner.					
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	under 35 U.S.C. § 119						
12)[Acknowledgment is made of a claim f	or foreign priority	under 35 U.S.C. § 119(a)-(d) or (f).			
	a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority of			ation No			
	3. Copies of the certified copies of	f the priority doc	uments have been recei	ved in this National Stage			
	application from the Internation	al Bureau (PCT	Rule 17.2(a)).				
* 5	See the attached detailed Office action	for a list of the o	ertified copies not receive	ved.			
Attachmen	• •		 □	(DWO 440)			
	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PT	-O-948)	4) Interview Summa Paper No(s)/Mail				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or F		5) Notice of Information	Patent Application (PTO-152)			
Pape	r No(s)/Mail Date		6)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rinchiuso et al "Rinchiuso" in view of Chintz et al "Chintz".

As to claim 1,3,7, Rinchiuso disloses a method for transmission within a wireless communication system (100 of figure 1), the method comprising: receiving a plurality of uplink transmissions from a plurality of remote units (column 2 lines 21-27, column 3, lines 20-25, column 7, lines 17-25 and figure 1), determining a plurality of remote units (column 3 lines 18-34, column 7, lines 20-25), combining uplink transmissions of the plurality of uplink transmissions to produce a combined signals (column 3, lines 18-34, column 7, lines 25-29and figure 6), and transmitting the combined signal to a base station to be broadcast via a downlink communication signal to the plurality of remote units (column 7 lines 29-40 and figure 6). Rinchiuso does not specifically disclose a subset of the plurality of remote units wherein the subset determined based on an energy of an uplink transmission of each remote from the plurality of remote units. However, Chintz discloses a subset of the plurality of remote units (group members A to D) wherein the subset determined based on an energy of an uplink transmission of each remote from the plurality of remote units (the group

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members of A to D is determined base on inbound full rate or low rate links, in this cases group member D is full rate link. "high energy inbound link" (figure 5). The prior art "Rinchiuso and Chinitz" are with same field of endeavor "multicast communication". Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Rinchiuso and Chinitz, in order to solve the problem of unnecessary signaling between the remote and base station by utilizing the multicast communication technique.

As to claim 2, Rinchiuso dislcoses receiving the plurality of uplink transmissions from the plurality of remote units (113-117) comprises the of receiving a plurality of traffic channel transmissions form the plurality of remote units (column 3, lines 18-25).

As to claim 4,8 Rinchiuso discloses decoding uplink transmissions to produce a plurality of decoded transmissions (column 4 line 45-column 5 line 2) summing the plurality of decoded transmissions to produce a summed decoded transmission and encoding the summed decoded transmission (column 4 line 45-column 5, line 2 and figure 3).

As to claim 5, Rinchiuso discloses transmitting the combined signal to base station to be broadcast via the downlink communication signal comprises the step of transmitting the combined signal to the base station to be broadcast via downlink traffic channel to the plurality of remote units (column 3, lines 18-34).

As to claim 6, Rinchiuso dislcoses a wireless communication system (100 of figure 1), the method comprising: receiving a plurality of uplink transmissions from a plurality of remote units (column 2 lines 21-27, column 3, lines 20-25, column 7, lines

17-25 and figure 1), determining a plurality of remote units (column 3 lines 18-34, column 7, lines 20-25), combining uplink transmissions of the plurality of uplink transmissions to produce a combined signals (column 3, lines 18-34, column 7, lines 25-29and figure 6), and transmitting the combined signal to a base station to be broadcast via a downlink communication signal to the plurality of remote units (column 7 lines 29-40 and figure 6). Rinchiuso does not specifically disclose a subset of the plurality of remote units wherein the subset determined based on an energy of an uplink transmission of each remote from the plurality of remote units and multiple uplink voice transmissions from the first uplink voice transmission. However, Chintz discloses a subset of the plurality of remote units (group members A to D) wherein the subset determined based on an energy of an uplink transmission of each remote from the plurality of remote units (the group members of A to D is determined base on inbound full rate or low rate links, in this cases group member D is full rate link. "high energy inbound link" (figure 5), multiple uplink voice transmissions from the first uplink voice transmission (column 5, line 66-column 6, line 11). The prior art "Rinchiuso and Chinitz" are with same field of endeavor "multicast communication" and Rinchiuso suggest that the fundamental channels are similar to existing CDMA traffic channels used for voice (column 6, lines 48-49). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Rinchiuso and Chinitz, in regrouping in subset and voice transmission, in order to solve the problem of unnecessary signaling between the remote and base station by utilizing the multicast communication technique.

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Claims 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rinchiuso in view of Grube et al "Grube" (6005848).

As to calims 9-11, Rinchiuso disloses a method for transmission within a wireless communication system (100 of figure 1), the method comprising: receiving a plurality of uplink transmissions from a plurality of remote units (column 2 lines 21-27, column 3, lines 20-25, column 7, lines 17-25 and figure 1), determining a plurality of remote units (column 3 lines 18-34, column 7, lines 20-25), combining uplink transmissions of the plurality of uplink transmissions to produce a combined signals (column 3, lines 18-34, column 7, lines 25-29and figure 6), and transmitting the combined signal to a base station to be broadcast via a downlink communication signal to the plurality of remote units (column 7 lines 29-40 and figure 6). Rinchiuso does not teach transponder. However, Grube, in similar field of endeavor, discloses transcoder (column 5, lines 1-11). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Rinchiuso and Grube in transcoding streams of data into a single steam in order to downlink to plurality of remote units from the base station.

Response to Arguments

Applicant's arguments filed 1.7.04 have been fully considered but they are not persuasive.

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On page 3, third paragraph of response, applicant argued that Rinchiuso teach nothing of receiving uplink transmissions from multiple remote units and combining the uplink transmissions to produce a combined signal fro downlink transmission.

The examiner disagrees. Rinchiuso discloses receiving a plurality of uplink transmissions from a plurality of remote units (column 2 lines 21-27, column 3, lines 20-25, column 7, lines 17-25 and figure 1), determining a plurality of remote units (column 3 lines 18-34, column 7, lines 20-25), combining uplink transmissions of the plurality of uplink transmissions to produce a combined signals (column 3, lines 18-34, column 7, lines 25-29and figure 6), and transmitting the combined signal to a base station to be broadcast via a downlink communication signal to the plurality of remote units (column 7 lines 29-40 and figure 6). In fact, Rinchiuso specifically illustrates at least one remote unit (113-117) that requested participation in the session "multicast".

On page 4, second paragraph of response, applicant argued that Chintz does not teach determining a subset of the multiple remote units based on energy of an uplink transmission of each remote unit of the multiple remote units.

The examiner disagrees. Chintz discloses determining a subset (107-109 and 104-106 of figure 1) of the multiple remote units based on energy of an uplink transmission of each remote unit of the multiple remote units (figure 2 and it's disclosure). Chintz groups the plurality of remote units in to subset monitoring outbound control channels based on power of the remote units.

On page 5, fifth paragraph of response, applicant argued that Rinchiuso and Chintz do not teach transcoder. However, applicant's argument is moot based on new rejection to claim 9.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Rinchiuso et al (6,104,709) discloses plurality of remotes that wish to receive a multicast session monitor a multicast advertisement message on a system broadcast channel to determine a session to receive (abstract).

Heiskari et al (5,930,723) discloses establishing an extended group call in a mobile communication system (abstract).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone number is 703-308-5873. The examiner can normally be reached on flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TBG

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March 8, 2004